Contents Volume 23, 1989

Special Issue "Proterozoic Geochemistry", edited by R. Gorbatschev

Preface, by R. Gorbatschev	v
Geochemical changes in basalts and andesites across the Archean-Proterozoic boundary: Identification and significance	
K.C. Condie (Socorro, N.M., U.S.A.)	1
Nature and origin of Proterozoic A-type granitic magmatism in the southwestern United States of America J.L. Anderson and E.E. Bender (Los Angeles, Calif., U.S.A.)	19
Basalt geochemistry and tectonic settings: A new approach to relate tectonic and magmatic processes	51
R.E. Myers and J.H. Breitkopf (Johannesburg, South Africa) The Wuluma granite, Arunta Block, central Australia: An example of in situ, near-isochemical granite formation in a	53
granulite-facies terrane	
W.J. Collins (Newcastle, N.S.W., Australia), R.H. Flood, R.H. Vernon and S.E. Shaw (Sydney, N.S.W., Australia)	. 63
Geochemical characteristics of Proterozoic post-orogenic magmatism in the Nagssugtoqidian Mobile Belt of southeast Greenland	
R. Vannucci, B. Messiga, M. Oddone (Pavia, Italy), G.B. Piccardo (Genova, Italy) and L. Tolomeo (Rome, Italy)	. 85
The geochemistry of Proterozoic lower-crustal depletion in southwest Sweden	
F.H. Hubbard (Dundee, Great Britain)	101
Geochemical evidence for magma source heterogeneity and activity of a mantle plume during advanced rifting in the southern Damara Orogen, Namibia	
J.H. Breitkopf (Johannesburg, South Africa)	115
The influence of recent lead loss on the interpretation of disturbed U-Pb systems in zircons from metamorphic rocks in southwest Sweden	
B.T. Hansen (Münster, Federal Republic of Germany), P.O. Persson (Lund, Sweden), F. Söllner (München, Federal	
Republic of Germany) and A. Lindh (Lund, Sweden)	123
Magmatic development and tectonomagmatic models for the Solund-Stavfjord Ophiolite Complex, West Norwegian Caledonides	
K.P. Skjerlie, H. Furnes and R.J. Johansen (Bergen, Norway)	137
Chromite pods in a lherzolite massif (Collo, Algeria): Evidence of oceanic-type mantle rocks along the West Mediterranean Alpine Belt	
M. Leblanc (Montpellier, France) and A. Temagoult (Constantine, Algeria)	153
Crystallization and deformation of amphiboles, and cummingtonite-forming reactions in the garbenschists of the Western Tauern Window (Eastern Alps, northeast Italy-western Austria)	
F. von Blanckenburg (Zürich, Switzerland) and G. Morteani (Garching, Federal Republic of Germany)	. 163
Chemical-microstructural changes in eclogite-facies shear zones (Monviso, Western Alps, north Italy) as indicators of strain history and the mechanism and scale of mass transfer	
P. Philippot (Cambridge, Mass., U.S.A.) and JR. Kienast (Paris, France)	179
Ferrimuscovite and celadonite substitutions in muscovite from Fe ³⁺ -rich low-grade psammitic rocks (Northern Apennines, Italy)	
C. Baldelli (Siena, Italy), M. Franceschelli (Cagliari, Italy), L. Leoni (Pisa, Italy) and I. Memmi (Siena, Italy)	. 201
The influence of recent lead loss on the interpretation of disturbed U-Pb systems in zircons from igneous rocks in East Greenland	
B.T. Hansen (Münster, Federal Republic of Germany) and J.D. Friderichsen (Copenhagen, Denmark)	. 209
Discussion	
Vesicles, amygdales and similar structures in fault-generated pseudotachylites — Comment	
J.E. Dixon and T.H. Dixon (Pasadena, Calif., U.S.A.)	225
Vesicles, amygdales and similar structures in fault-generated pseudotachylites — Reply	
R.H. Maddock (London, Great Britain), J. Grocott (Kingston-upon-Thames, Great Britain) and M. van Nes	222
(Utrecht, The Netherlands)	227

Book Review	
Gold, History and Genesis of Deposits, by R.W. Boyle - J.G. Price	231
Cortlandtitic enclaves associated with calc-alkaline granites from Tapia-Asturias (Hercynian Belt, northwestern Spain) G. Galán (Barcelona, Spain) and O. Suárez (Oviedo, Spain)	233
Geochemistry of granitic rocks from the Hercynian Sardinia-Corsica batholith: Implication for magma genesis G. Poli (Florence, Italy), C. Ghezzo (Siena, Italy) and S. Conticelli (Florence, Italy)	247
Behaviour of rare-earth elements in highly evolved granitic systems: Evidence from Proterozoic molybdenite mineralized aplites and associated granites in northern Sweden	
B. Öhlander (Luleå, Sweden), K. Billström (Stockholm, Sweden) and E. Hålenius (Luleå, Sweden)	267
(Northeastern Pyrenees, France): A comparison with mantle-derived megacrysts from alkali basalts J.P. Lorand (Paris, France)	281
Book Reviews	201
Mantle Xenoliths, edited by P.H. Nixon — L.M. Larsen	
Volcanic Successions — Modern and Ancient, by R.A.F. Cas and J.V. Wright — D.M. Pyle	
Author Index Volume 23, 1989	303
Contents Volume 23, 1989	305
A STATE OF THE PARTY OF THE PAR	



